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1 [Algorithms and programming models for efficient representation of XML for Internet applications](#)

Neel Sundaresan, Reshad Moussa

April 2001 **Proceedings of the tenth international conference on World Wide Web**Full text available: [pdf\(352.97 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** DOM, SAX, WBXML, XML, compression

2 [A web based environment for learning to program](#)

Nghi Truong, Peter Bancroft, Paul Roe

February 2003 **Proceedings of the twenty-sixth Australasian computer science conference on Conference in research and practice in information technology - Volume 16**Full text available: [pdf\(1.51 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The purpose of this paper is to describe in detail the current development status of the innovative Environment for Learning to Program (ELP) which provides an interactive web-based environment for teaching programming to the first year Information Technology students at Queensland University of Technology (QUT). ELP allows students to program at the early stages of their course without the need to familiarize themselves with a program development environment. Most importantly, it eliminates all ...

Keywords: Java, XML, computer programming, online learning, tutoring system, web

3 [Design: Formal design of SMIL presentations](#)

Robert M. Newman, Elena I. Gaura

October 2003 **Proceedings of the 21st annual international conference on Documentation**Full text available: [pdf\(255.55 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

SMIL (Synchronised Multimedia Integration Language) is an XML language for the distribution of synchronised video, sound and other media in presentations, and is likely to be the preferred format for distribution of multimedia presentations that include

synchronised and streamed media. Previous work has argued that conventional hypermedia design methods provide insufficient design rigour to allow their use with confidence for safety and mission critical applications. It was shown how formal meth ...

Keywords: SMIL, formal methods, hypermedia design

4 Static analysis of students' Java programs

Nghi Truong, Paul Roe, Peter Bancroft

January 2004 **Proceedings of the sixth conference on Australian computing education - Volume 30**

Full text available:  [pdf\(279.63 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

A recent industry survey (Townhidnejad and Hilburn, 2002) has reported that more than fifty percent of a software project's budget is spent on activities related to improving software quality. Industry leaders claim that this is caused by the inadequate attention paid to software quality in the development phase. This paper introduces a static analysis framework which can be used to give beginning students practice in writing better quality Java programs and to assist teaching staff in the marki ...

Keywords: Java, Web, XML, online learning, static analysis, tutoring system

5 E-services: a look behind the curtain

Richard Hull, Michael Benedikt, Vassilis Christophides, Jianwen Su

June 2003 **Proceedings of the twenty-second ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**

Full text available:  [pdf\(269.51 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The emerging paradigm of electronic services promises to bring to distributed computation and services the flexibility that the web has brought to the sharing of documents. An understanding of fundamental properties of e-service composition is required in order to take full advantage of the paradigm. This paper examines proposals and standards for e-services from the perspectives of XML, data management, workflow, and process models. Key areas for study are identified, including behavioral servi ...

6 Hypermedia and Graphics 2: Vector graphics: from PostScript and Flash to SVG

Steve Probets, Julius Mong, David Evans, David Brailsford

November 2001 **Proceedings of the 2001 ACM Symposium on Document engineering**

Full text available:  [pdf\(127.00 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The XML-based specification for Scalable Vector Graphics(SVG), sponsored by the World Wide Web consortium, allows for compact and descriptive vector graphics for the Web. This paper describes a set of three tools for creating SVG, either from first principles or via the conversion of existing formats. The *ab initio* generation of SVG is effected from a server-side CGI script, using a PERL library of drawing functions; later sections highlight the problems of converting Adobe PostScript and ...

Keywords: Flash, PDF, PostScript, SVG, SWF

7 Combining RDF and XML schemas to enhance interoperability between metadata application profiles

Jane Hunter, Carl Lagoze

April 2001 **Proceedings of the tenth international conference on World Wide Web**

Keywords: RDF, XML, XSLT, interoperability, metadata, schema

8 Formal methods: Using extended positional grammars to develop visual modeling languages 

Gennaro Costagliola, Vincenzo Deufemia, Filomena Ferrucci, Carmine Gravino

July 2002 **Proceedings of the 14th international conference on Software engineering and knowledge engineering**

Full text available:  pdf(200.80 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

In this paper we present the approach based on the formalism of Extended Positional Grammars for specifying, designing and implementing visual modeling languages. In order to stress the main characteristics of the approach and highlight its power, we describe the use of the formalism to implement statecharts languages which represent one of the most complex visual modeling languages used in the software engineering field. In the paper special emphasis is put on describing the benefits deriving f ...

Keywords: automatic generation of visual programming environments, extended positional grammars, formal specifications, statecharts, visual languages

9 ViSWeb—the Visual Semantic Web: unifying human and machine knowledge representations with Object-Process Methodology 

Dov Dori

May 2004 **The VLDB Journal — The International Journal on Very Large Data Bases**,

Volume 13 Issue 2

Full text available:  pdf(1.22 MB) Additional Information: [full citation](#), [abstract](#)

The Visual Semantic Web (ViSWeb) is a new paradigm for enhancing the current Semantic Web technology. Based on Object-Process Methodology (OPM), which enables modeling of systems in a single graphic and textual model, ViSWeb provides for representation of knowledge over the Web in a unified way that caters to human perceptions while also being machine processable. The advantages of the ViSWeb approach include equivalent graphic-text knowledge representation, visual navigability, semantic sentenc ...

Keywords: Conceptual graphs, Knowledge representation, Object-Process Methodology, Semantic Web, Visual Semantic Web

10 QMView and GAMESS: integration into the world wide computational grid 

Kim K. Baldridge, Jerry P. Greenberg, Stephen T. Elbert, Stephen Mock, Philip Papadopoulos November 2002 **Proceedings of the 2002 ACM/IEEE conference on Supercomputing**

Full text available:  pdf(650.61 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

High performance computing, storage, visualization, and database infrastructures are increasing geometrically in complexity as scientists move towards grid-based computing. While this is natural, it has the effect of pushing computational capabilities beyond the reach of scientists because of the time needed to harness the infrastructure. Hiding the complexity of networked resources becomes essential if scientists are to utilize them effectively. In this work, we describe our efforts to integrat ...

11 Future of simulation: Simulation in the international IMS MISSION project: the IMS MISSION architecture for distributed manufacturing simulation 

Charles McLean, Frank Riddick

December 2000 Proceedings of the 32nd conference on Winter simulation

Full text available:  [pdf\(269.47 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper presents an overview of a neutral reference architecture for integrating distributed manufacturing simulation systems with each other, with other manufacturing software applications, and with manufacturing data repositories. Other manufacturing software applications include, but are not limited to systems used to: 1) design products, 2) specify processes, 3) engineer manufacturing systems, and 4) manage production. The architecture identifies the software building blocks and interface ...

12 Spoken dialogue technology: enabling the conversational user interface 

March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Full text available:  [pdf\(987.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerce ...

Keywords: Dialogue management, human computer interaction, language generation, language understanding, speech recognition, speech synthesis

13 Facilitating process management: The technical writer as software process catalyst 

Kendall V. Scott

September 2000 **Proceedings of IEEE professional communication society international professional communication conference and Proceedings of the 18th annual ACM international conference on Computer documentation: technology & teamwork**

Full text available:  [pdf\(684.48 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The emergence of a New Economy, fueled by business-to-business e-commerce and moves toward things like component-based development, and soon to be dominated by browser-based applications, is creating a shift in focus away from user documentation and towards what we might refer to as "systems documentation." This term encompasses includes any kind of documentation that describes the technical aspects of a software system for people like systems analysts, modelers, and software engineers, rather than ...

14 Evaluating Object-Oriented Designs with Link Analysis 

May 2004 **Proceedings of the 26th International Conference on Software Engineering**

Full text available:  [pdf\(242.65 KB\)](#) Additional Information: [full citation](#), [abstract](#)
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The Hyperlink Induced Topic Search algorithm, which is a method of link analysis, primarily developed for retrieving information from the Web, is extended in this paper, in order to evaluate one aspect of quality in an object-oriented model. Considering the number of discrete messages exchanged between classes, it is possible to identify "God" classes in the system, elements which imply a poorly designed model. The principal eigenvectors of matrices derived from the adjacency matrix of a modified class ...

15 Computation of large scale constrained matrix problems: the splitting equilibration algorithm 

The *Constrained Matrix* problem is a core problem in numerous applications in the social and economic sciences, including: the estimation of input-output tables, trade tables, and social/national accounts, the projection of migration flows over space and time, the treatment of census data, the analysis of political voting patterns, and the estimation of contingency tables. In this paper we introduce a general parallelizable computational method called the Splitting Equilibration Algorithm ...

16 Suede: a Wizard of Oz prototyping tool for speech user interfaces 

Scott R. Klemmer, Anoop K. Sinha, Jack Chen, James A. Landay, Nadeem Aboobaker, Annie Wang

November 2000 **Proceedings of the 13th annual ACM symposium on User interface software and technology**

Keywords: Wizard of Oz, design, design tools, informal user interfaces, low-fidelity, prototyping, speech user interfaces

17 Documenting software systems with views III: towards a task-oriented classification of program visualization techniques 

Scott Tilley, Shihong Huang

October 2002 **Proceedings of the 20th annual international conference on Computer documentation**

Documentation has long played a key role in aiding program understanding. Graphical forms of documentation rely on software visualization techniques to make complicated information easier to understand. However, it is an open question exactly which types of graphical documentation are most suitable for which types of program understanding tasks (and in which specific usage contexts). This paper describes preliminary work towards a task-oriented classification of program visualization techniques. ...

Keywords: documentation, program understanding, visualization

18 Narratives and Literary Hypertext: Graphical notations, narratives and persuasion: a Pliant Systems approach to Hypertext Tool Design 

Luke Emmet, George Cleland

June 2002 **Proceedings of the thirteenth ACM conference on Hypertext and hypermedia**

The Adelard Safety Case Editor (ASCE) is a hypertext tool for constructing and reviewing structured arguments. ASCE is used in the safety industry, and can be used in many other contexts when graphical presentation can make argument structure, inference or other dependencies explicit. ASCE supports a rich hypertext narrative mode for documenting traditional argument fragments. In this paper we document the motivation for developing the tool and describe its operation and novel features. Since us ...

Keywords: field experience, graphical notation, hypertext argumentation, pliant systems,

19 Online system performance measurements with software and hybrid monitors 

Liba Svobodova

January 1973 **ACM SIGOPS Operating Systems Review , Proceedings of the fourth ACM symposium on Operating system principles**, Volume 7 Issue 4

Full text available:  [pdf\(575.07 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Two monitors were implemented to collect information about the behavior of the online system developed and run at Stanford. The response of this online system was slow and main memory was a critical resource. The goal was to extract desired information by a method that requires only a negligible amount of monitored system resources. Results presented in this paper indicate that this effort has been successful. A software monitor that requires less than 700 bytes of main memory collects stat ...

20 Developing and integrating enterprise components and services: A goal-driven approach to enterprise component identification and specification 

Keith Levi, Ali Arsanjani

October 2002 **Communications of the ACM**, Volume 45 Issue 10

Full text available:  [pdf\(180.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)
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Mapping a business architecture to a component-based software architecture.

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[Scheduling Access To Temporal Data In Real-Time Databases](#) - Xiong, Sivasankaran.. (1997) (Correct) (3 citations)
include autopilot systems, robot navigation, and **program** stock trading [14]While considerable work has
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